



# BULKIS KANATA

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## PROFILE

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## EDUCATION

- 1998  
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2001
- MASTER PROGRAM**  
Electrical Engineering  
at Universitas Gajah Mada  
(UGM), Yogyakarta
- 1992  
-  
1997
- BACHELOR PROGRAM**  
Electrical Engineering  
at University of Hasanuddin,  
Makassar Indonesia

## EXPERIENCE

### Research Experience

2019

Mini Eksplorasi Potensi Geothermal Menggunakan Metode Geomagnet di Wilayah Sembalun, DIPA BLU (PNBP) Unram

2018

Switch Daya Listrik Adaptif pada Observatorium Geomagnet Lombok Berbasis Programmable Logic Control (PLC), DIPA BLU (PNBP) Unram  
Pengembangan Observatorium Geomagnetik untuk Sistem Peringatan Dini Bencana Gempa Bumi Terintegrasi di Wilayah Indonesia Timur, Ristek Dikti (Penelitian Terapan Unggulan PT), 2018-2019

2015

Observasi Geomagnetik dan Seismologi Terpadu di Pulau Lombok: Kontribusi untuk Pemodelan Global dan Mitigasi Bencana Gempa Bumi Wilayah Indonesia Timur, Dikti (Penelitian Unggulan PT), 2015-2016

2012

Pengolahan Sinyal Seismo-geomagnetik untuk Mitigasi Bencana Gempa Bumi Tektonik Regional di Wilayah Indonesia Timur, Dikti (Penelitian Unggulan PT), 2012-2013  
Konsentrator Flux Geomagnetik untuk Pembangkit Listrik Tenaga Magnet Bumi, Ristek (INSINAs), 2012-2014

2006

Pemodelan fisika aplikasi metode geolistrik konfigurasi schlumberger untuk investigasi keberadaan air tanah, Dikti (Dosen Muda)  
Pemodelan fisika aplikasi metode geolistrik tahanan jenis untuk survey pipa bawah permukaan, Dikti (Dosen Muda)  
Pemantauan keberadaan anomali geomagnet ekstrem di pulau Lombok NTB: Penentuan pola variasi anomali geomagnet untuk prediksi terjadinya gempa tektonik di daerah patahan, Dikti (Hibah Pekerti), 2006-2007

2005

Pengembangan metodologi elektromagnetik dan aplikasinya untuk evaluasi sumber anomali magnetik bumi: Kajian tentang potensi sumber daya alam di kota Mataram pulau Lombok propinsi Nusa Tenggara Barat, Ristek (PRSD MIPA) Bappeda Prov. NTB

### ComDev Experience

2018

Pemasangan Pompa untuk Menaikkan Air Tanah Integrasi Pembangkit Listrik Tenaga Bayu di Desa Rembitan Lombok Tengah, NTB, DIPA BLU (PNBP) Unram

2017

Pelatihan Instalasi dan Perawatan Fasilitas Pembangkit Listrik Energi Angin di Desa Rembitan, Kec. Pujut, Kab. Lombok Tengah, DIPA BLU (PNBP) Unram

2016

Pemberdayaan Masyarakat Desa Rembitan Menuju Desa Mandiri Energi Melalui Penyediaan Listrik dari Energi Angin, Hibah IBM RistekDikti

2015

Sosialisasi Potensi dan Pemanfaatan Energi Angin di Desa Rembitan, Kec. Pujut, Kab. Lombok Tengah, PNBP Unram

2014

Pelatihan Pembuatan Data Base dan Pengolahan Data Menggunakan Excel bagi Guru dan Staf SMPN 1 Kuripan, DIPA PNBP  
Pelatihan Pembuatan Blog dan Pengolahan Data Menggunakan Microsoft Office bagi Guru dan Staf SMPN 1 Kuripan Kab. Lombok Barat, BOPTN  
Pelatihan Stiga Bencana dan Pengoperasian Stasiun Pemantau Fluktuasi Geomagnetik di PP Nurul Bayan dan SMPN 2 Gangga Kab. Lombok Utara, Hibah IBM Dikti

2013

Sosialisasi Pembangunan Observatorium Geomagnetik Lombok dan Energi Biogas di Desa Rembitan Kab. Lombok Tengah, Swadana

2012

Sosialisasi "Open Source" Siswa Sekolah Menengah Atas Negeri 1 Kopang Lombok Tengah NTB, PNBP

Pelatihan Siaga Bencana di SDIT Anak Sholeh Mataram, DIPA PNBP

2011

Sosialisasi Observatorium Geomagnetik kepada tokoh-tokoh masyarakat Kab. Lombok Tengah, Internal-Mandiri

Penggunaan TIK dan Energi alternative untuk meningkatkan unjuk kerja kelompok petani Lumbang", PNBP

2010

Sosialisasi Internet Sehat di SMA Aikmel Lombok Timur, SPP DPP

## Publication

2019

Analisis Kinerja Sistem OFDM pada Kanal AWGN dan Rayleigh dengan Modulasi M-QAM dan MPSK Berbasis Simulink, Dielektrika, Vol. 6, No. 1 : 9-18

2015

Pencocokan Citra Sidik Jari Menggunakan Korelasi Silang Ternormalisasi, Jurnal Rekayasa Elektrika (terindeks DOAJ), Vol. 11, No.4

2014

New insights into regional tectonics of the Sunda-Banda Arcs region from integrated magnetic and gravity modelling, Journal of Asia Earth Sciences, Vol. 80, No. 5, pp. 172-184

Lesser Sunda Islands Earthquake InterOccurrence Times Distribution Modeling,

International Journal of Technology (IJTech), Vol. 5, No. 3, pp. 242-250

Changes of the Geomagnetic Signal linked to Tohoku Earthquake on March 11th 2011.

International Journal of Technology (IJTech), Vol. 5, No. 3, pp. 251-258

Three-Dimensional Mapping of Static Magnetic Fields over a Semi Anechoic Chamber,

Journal of Technology (IJTech), Vol. 5, No. 3, pp. 209-218

2010

Geomagnetic field anomalies over the Lombok Island region: an attempt to understand the local tectonic changes, International Journal of Earth Sciences, Volume 99, Number 5, pp 1123 - 1132

2009

Pengukuran resistivitas pada daerah dugaan sumber penyebab anomali geomagnetik di pulau Lombok NTB, Teknologi Elektro, Vol 8 (1)

2008

Penerapan Metode Very Low Frequency (VLF) pada Lokasi Anomali Geomagnetik Rendah, Jurnal Academia Ista, Vol 12

Pemodelan fisika aplikasi metode geolistrik konfigurasi Schlumberger untuk investigasi keberadaan air tanah, Teknologi Elektro, Vol 7 (1)

2007

Hasil-hasil awal pemantauan keberadaan anomali geomagnet ekstrem di pulau Lombok: Penentuan pola variasi anomali geomagnet untuk prediksi terjadinya gempa tekt,

Rekayasa Jurnal Teknik Unram

2005

Pemanfaatan metode geolistrik untuk penentuan sumber anomali geomagnet di kota Mataram, pulau Lombok NTB, Jurnal Teknologi, Ed . 3 th. XIX

Penelusuran sumber anomali medan magnet bumi di kota Mataram, pulau Lombok, Rekayasa Jurnal Teknik

## Scientific Conference Presenter Experience

2018

Earth Magnetic Fields Evolution over Nusa Tenggara Region from Declination and Inclination Changes on Lombok Geomagnetic Observatory, 2nd International

Conference on Applied Electromagnetic Technology (AEMT), Lombok

Earth Magnetic Fields Evolution over Nusa Tenggara Region from Intensity and

Power Spectral Density Changes on Lombok Geomagnetic Observatory, 2nd International Conference on Applied Electromagnetic Technology (AEMT), Lombok

2017

Static and Dynamic Magnetic Fields Scattering on a Mini Magneto-static Flux Manipulator for Wireless Power Transfer, International Symposium on Electrical Engineering on the 15th Quality in Research (QiR), Denpasar

Engaging Community in Developing Electrical Wind Power in Rembitan Village, Central Lombok, International Symposium on Electrical Engineering on the 15th Quality in Research (QiR), Denpasar

2007

Application of Geoelectric Method in Possibility of The Source of Geomagnetic Anomaly Area in Lombok Island, International Workshop on Seismo Electromagnetic Phenomena (IWSEP), Bandung

Monitoring of The Existence of High Intensity Geomagnetic Anomaly along the Java Trench: First Year Results, International Workshop on Seismo Electromagnetic Phenomena (IWSEP), Bandung

2012

Self arrangement of anechoic chamber and Helmholtz coil for EMC test, Seminar Nasional Teknik Elektro (SNTEI), Lombok

Rekalibrasi Kumpanan Helmholtz untuk Pengujian Sistem Konsentrator Fluks Geomagnetik, Seminar Nasional INSINAs, Jakarta

2013

Pengolahan Sinyal Geomagnetik sebagai Prekursor Gempa Bumi di Regional Jepang, Konferensi Nasional Sistem Informasi (KNSI), Lombok

Magneto-Static Flux Manipulator Prepared for Future Geomagnetic Power Plant, International Symposium on Electrical Engineering on the 13th Quality in Research (QiR), Yogyakarta

Comprehensive Geomagnetic Signal Processing for Successful Earthquake Prediction, International Symposium on Electrical Engineering on the 13th Quality in Research (QiR), Yogyakarta

2015

LOK-Viewer : Graphical Interface Application for Geomagnetic Data in Observatory Geomagnetic Lombok, International Conference on Electrical Engineering, Informatics, and Its Education (CEIE, Malang)

Quiet Time Localization of Geomagnetic Data for Japanese Regions, International Symposium on Electrical Engineering on the 14th Quality in Research (QiR), Lombok

Factual Electromagnetic Field Exposure under 150 kV Power Transmission Line, Nusra II, Lombok, International Symposium on Electrical Engineering on the 14th Quality in Research (QiR), Lombok

Originally Antipathy Turn into Care for Disaster Preparedness, International Symposium on Electrical Engineering on the 14th Quality in Research (QiR), Lombok

2016

Enhancement of LOK-Viewer Based Interfaces Application for Geomagnetic Data Signal Processing using Differentiation Method, International Seminar on Intelligent Technology and Its Application (ISITIA), Lombok

Correlation of Geomagnetic Signal for Earthquake Studies in Indonesia, Australia and Pasific Regions Processing using Differentiation Method, International Seminar on Intelligent Technology and Its Application (ISITIA), Lombok

Observation of Geomagnetic Fields Changes Related to 9th March 2016 Solar Eclipse on Lombok Island Indonesia, The 7th Indonesia Japan Joint Scientific Symposium (IJSS), Chiba University, Japan